

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS II135-21 REV. J
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA135-21 REV. F
OR LATER APPROVED REVISIONS

REF. TCCA STC: SH21-29
REF. FAA STC: SR02307LA
REF. EASA STC: 10031793
REF. AFAC STC: IA-751/2021

1.0 PURPOSE

It has come to Dart's attention that on some early model EC135, the presence of a 12VE CM Panel may prevent installation of the upper cutter fixed provisions as part of the DART EC135 647.7300 Series Cable Cutter Kits as intended. See Figure 1 of this DSI.

The purpose of this Dart Service Instruction (DSI) is to allow customers to manufacture qty(2) replacement L-Brackets to ensure that the 12VE CM Panel can be reinstalled after installation of Bracket P/Ns 647.7917 (ref. F/N 64) and 647.7918 (ref. F/N 65).

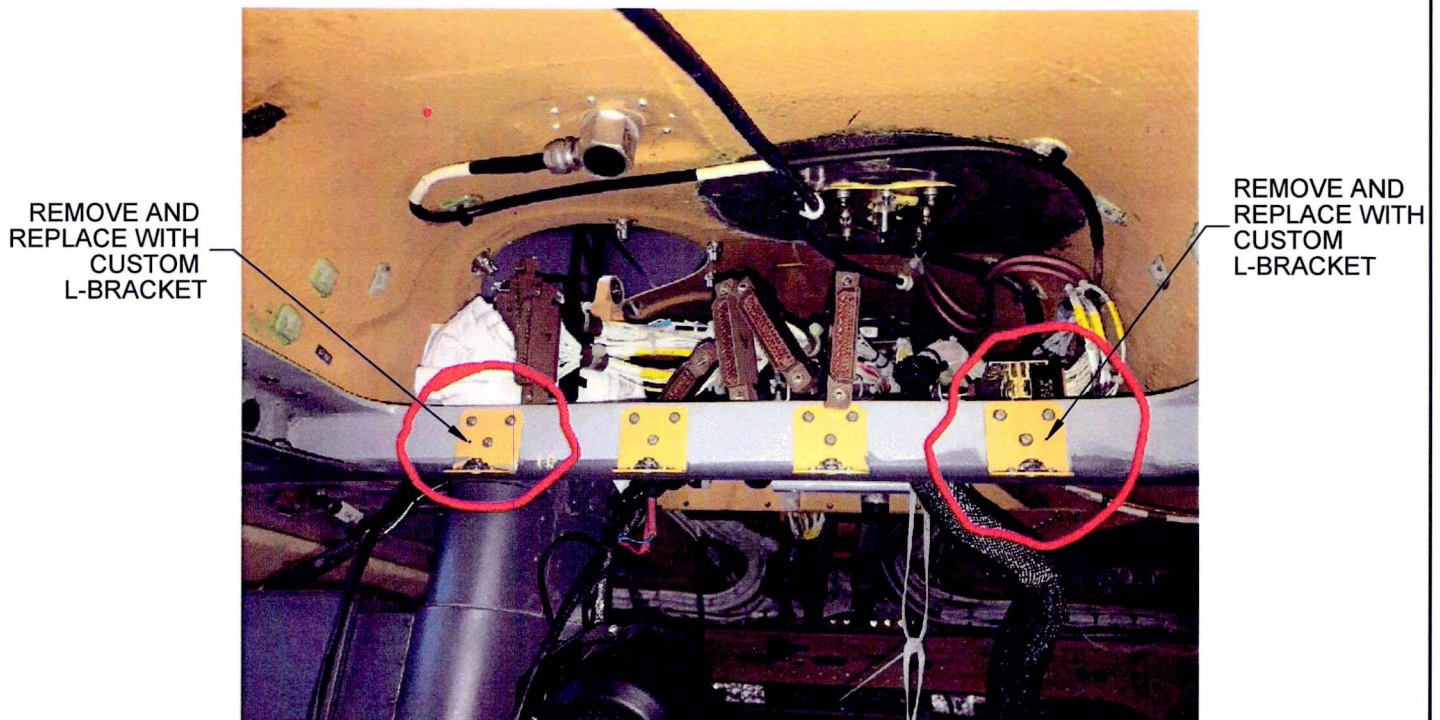


FIGURE 1: LOCATION OF REPLACEMENT L-BRACKET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: D. Shepherd
D. SHEPHERD (DE # 02)

DATE: 22.10.06
CERT. NO.: SH21-29
ISSUE NO.: 1

APPROVED

A	NEW ISSUE REF. (ECR 422)	SAD	22.10.06
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	MB	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9892	SHEET 1 OF 3
APPROVED	SAD	TITLE	SCALE
DE APPR.	DS	L-BRACKET SUBSTITUTION	NTS
DATE	22.10.06	COPYRIGHT © 2022 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

2.0 PROCEDURE

- 2.1 Remove the two interfering L-Brackets identified in Figure 1.
- 2.2 Fabricate two new L-Brackets per Figure 2 and 3 using 0.063 thick 2024-T3 aluminium sheet per AMS-QQ-A-250/4 or ASTM B209.
- 2.3 Locate Brackets 647.7917/.7918 per Figure 4 of II135-1 and locate the newly fabricated L-Brackets to match those removed in step 2.1.
- 2.4 Transfer drill qty (3)x existing holes from the airframe to the newly fabricated L-Brackets and 647.7917/.7918 Brackets. Drill qty (2)x additional holes on the newly fabricated L-Brackets and 647.7917/.7918 Brackets for a total of 5 mounting holes on each set of brackets as shown in Figure 4. Transfer the location of the nutplate hole to the replacement L-bracket.
- 2.5 Deburr edges and holes of the replacement brackets.
- 2.6 Finish L-Brackets by applying chemical conversion coat per MIL-DTL-5554, primer per MIL-PRF-23377, and paint to match original finish per the Aircraft Maintenance Manual.
- 2.7 Install nutplate P/N LN29679AM5 using qty(2) rivets P/N DIN65379-2404E on each manufactured L-Bracket.
- 2.8 Attach replacement bracket to the airframe using F/N 9 P/N MS27039-1-09 Screws, F/N 97 P/N MS21042-3 Locknuts, and F/N 101 NAS1149F0332P Washers with 647.7917/647.7918 Bracket per Figure 4.
- NOTE: It is acceptable to use longer or shorter fasteners to ensure 1.5 to 4 threads in safety.**
- 2.9 Complete the installation of the 647.7300 Series Cable Cutters Kit per II135-21 Revision J, or later approved revision.
- 2.10 Make an entry into the aircraft logbook to indicate that DSI 9892 has been incorporated.

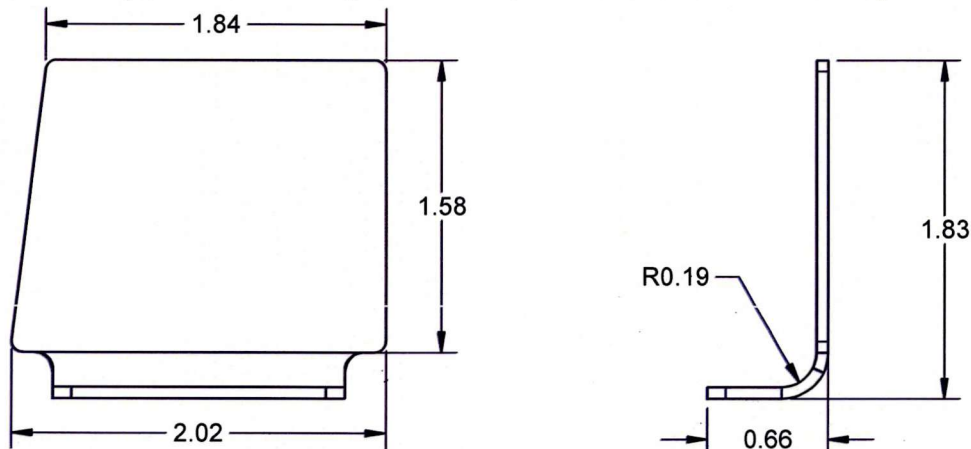


FIGURE 2: BENT L-BRACKET
(RH SHOWN, LH OPPOSITE)

APPROVED

DESIGN	SAD	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	MB	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9892	SHEET 2 OF 3
APPROVED	SAD	TITLE	SCALE
DE APPR.	DS	L-BRACKET SUBSTITUTION	NTS
DATE	22.10.06	COPYRIGHT © 2022 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

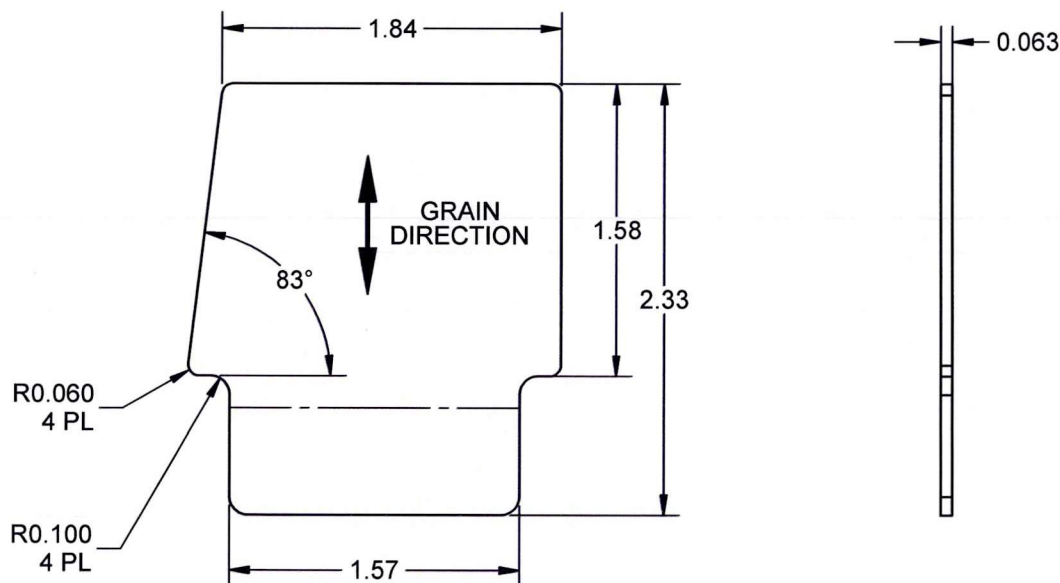


FIGURE 3: FLAT L-BRACKET

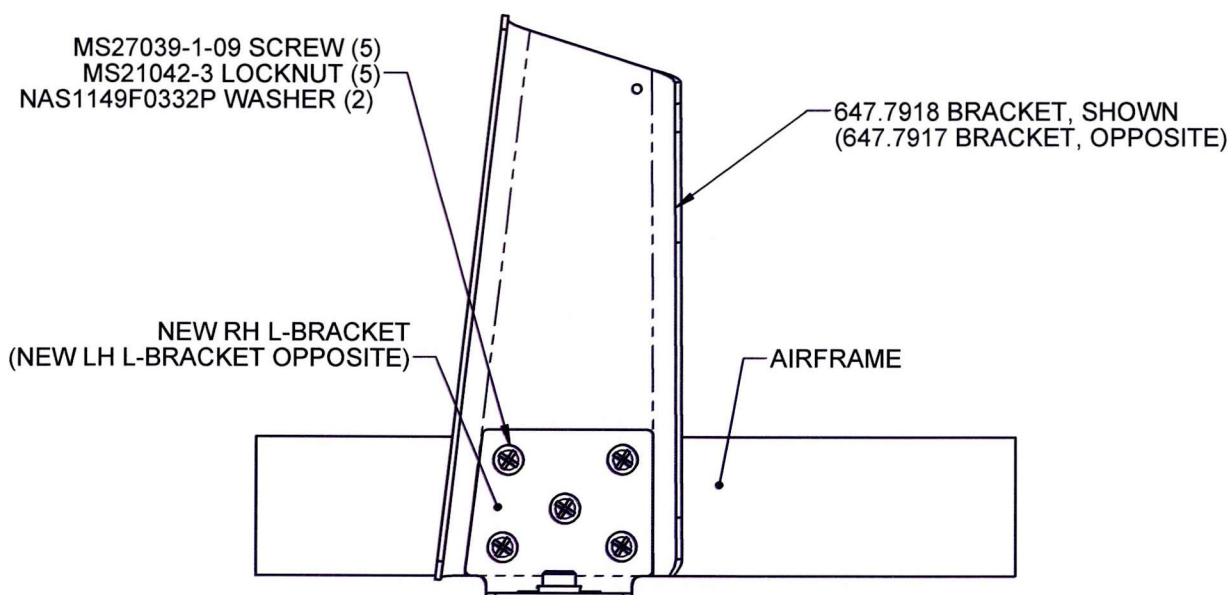


FIGURE 4: L-BRACKET ASSEMBLY

(RH L-BRACKET ASSEMBLY SHOWN, LH L-BRACKET ASSEMBLY OPPOSITE)

3.0 WEIGHT AND BALANCE

This modification has negligible effect on weight and balance.

APPROVED

DESIGN	SAD	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	MB	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9892	SHEET 3 OF 3
APPROVED	SAD	TITLE	SCALE
DE APPR.	DS-	L-BRACKET SUBSTITUTION	NTS
DATE	22.10.06	<small>COPYRIGHT © 2022 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	